



# Environmental Research: Beyond 2000

**Federal Aviation Administration  
Office of Environment and Energy**

# **Presentation Overview**

## **Environmental Research Beyond 2000**

- Introduction
- AEE Role
- Strategy
- Resources and Constraints
- Identifying Key Stakeholder Concerns
- Development Process
  - Public Involvement
  - Process
  - Intentions
- Findings from Public Meeting
- Outcome
- Comments

# An Introduction to Environmental Research Beyond 2000

- **GOAL:** To remove/mitigate environmental impediments to aviation growth
- **INTENTIONS:** To achieve goal with participation from all interested parties
- **OBJECTIVES:** To identify R&D strategies that can resolve environmental impediments and fulfill FAA's environmental mission

# **Role of FAA/AEE Environmental Research**

- ✈ Provide strong leadership
- ✈ Aircraft noise and emission certification standards
- ✈ Establish guidelines and develop computer models for assessing aviation environmental impacts

# Overall Environmental Strategy

- ✈ Design cost effective solutions
- ✈ Provide stakeholders a voice
- ✈ Serve as an advocate for both the environment and aviation growth
- ✈ Promote compatibility between environmental concerns and other areas of FAA research and policymaking

# Resources for Environmental Aviation Research

## ✈ Resources are limited

- Environmental research: 2% of the FAA RE&D budget

## ✈ We must make the best use of the resources available

- Identify research projects critical to the FAA environmental mission
- Identify research needs related to other FAA projects
- Focus on research projects that produce the most benefits to the most stakeholders

# Stakeholders on Aviation Environmental Issues

## FEDERAL AGENCIES

DOT/FAA

NASA

EPA

DOI/NPS

## PRIVATE SECTOR

Public

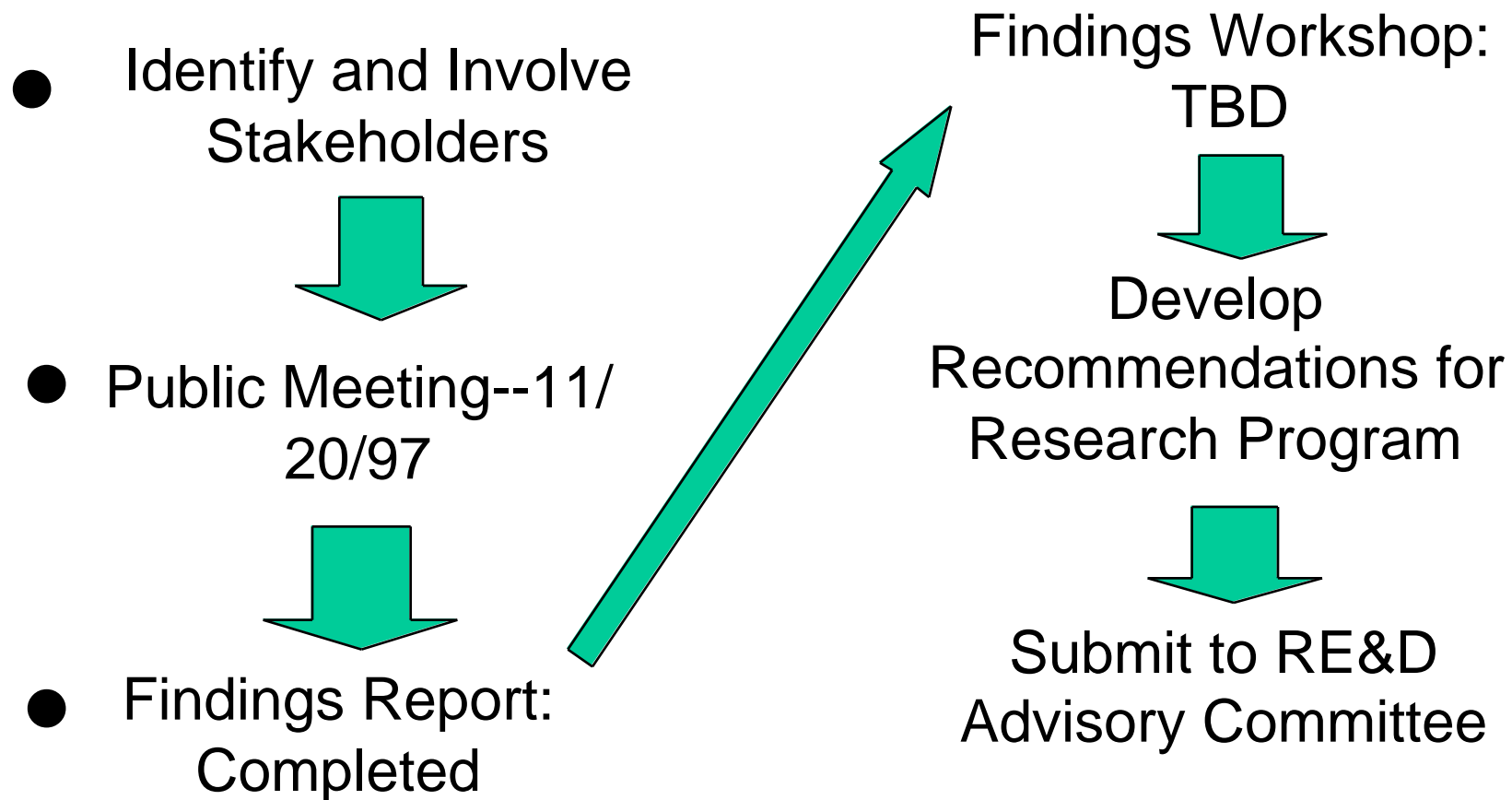
Manufacturers

Air Carriers  
(Passenger and Cargo)

Airports

NGO's

# **Development Process for Environmental Research Beyond 2000**





# Public Meeting Findings

- ✈ Federal Funding
- ✈ Improve the Process for Developing Research Agenda
- ✈ Airport Noise Impact - Metrics
- ✈ Handling and Runoff of Chemicals
- ✈ Approaches to Aircraft Noise and Emissions
  - Technical
  - Operational

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# **INTENTIONS**

## **Where Will the Process Lead?**

- ➔ Design R&D effort
- ➔ Identify best approaches
- ➔ AEE role: disseminate and coordinate FAA's environmental R&D strategy
  - With public, industry, and academic stakeholders
  - Among affected program offices within FAA
  - With other government agencies(NASA)

# FAA/NASA Research Compliment

## ✈ NASA

- Basic research
- Proof of concept
- Technology feasibility

## ✈ FAA

- Regulation
- Policy and guidance
- Balance needs of all stake holders

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# **OUTCOME**

## **Where Can New Environmental R&D Take Us?**

- ✈ More Effective Regulation
- ✈ Continue to Recycle, Refine, and Retarget Funds
- ✈ Improved Ability to Advocate Environmental Research
- ✈ Improved Ability to Anticipate Future Environmental Impacts of Aviation

# Environmental Research Beyond 2000

A focused, cost effective environmental R&D  
program that can

- ✈ Identify, measure, and mitigate environmental consequences of aviation activities
- ✈ Ensure continued benefits from aviation growth with minimal environmental impact on public quality of life
- ✈ Provide improved environmental assessment options for FAA program offices

# Contact

Federal Aviation Administration

National Headquarters

800 Independence Ave., S.W.

Washington, D.C 20591

Office of Environment and Energy(AEE)

Phone 202-267-3576

Fax 202-267-5594

Web Address: [AEE.HQ.FAA.GOV](http://AEE.HQ.FAA.GOV)